

DERWENT-ACC-NO: 2003-474661

DERWENT-WEEK: 200345

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TITLE: Front light for reflective LCD, has transparent functional layer with functional surface having prism array protection, reflection prevention and touch panel functions, laminated on light guide through silica aerogel layer

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PRIORITY-DATA: 2001JP-351952 (November 16, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
JP <u>2003149643</u> A	May 21, 2003	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP2003149643A	N/A	2001JP-351952
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INT-CL-CURRENT:

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CIPP	G02B6/00	20060101
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CIPS	G09F9/00	20060101
CIPS	G09F9/35	20060101

ABSTRACTED-PUB-NO: JP **2003149643** A

BASIC-ABSTRACT:

NOVELTY - A transparent functional layer (4) with a functional surface (4a) having prism array protection function, reflection prevention function and

touch panel function is laminated on a light guide (1) through a silica aerogel layer (2). The refractive index of the silica aerogel layer is 1.30 or less.

USE - For reflective liquid crystal display (LCD) in information technology equipment.

ADVANTAGE - Realizes effective light guide function without affecting the brightness of the LCD.

DESCRIPTION OF DRAWING(S) - The figure shows the cross- sectional views of the front light.

light guide (1)

prism array (1a)

light guide element (1b)

silica aerogel layer (2)

light source (3)

transparent functional layer (4)

functional surface (4a)

CHOSEN-DRAWING: Dwg.1/5

TITLE-TERMS: FRONT LIGHT REFLECT LCD TRANSPARENT FUNCTION LAYER SURFACE PRISM

ARRAY PROTECT PREVENT TOUCH PANEL LAMINATE GUIDE THROUGH SILICA
AEROGEL

DERWENT-CLASS: P81 P85 U14 V07

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